RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10

Source:

Date Processed by STIC:

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IFWO

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/580,176**DATE: 04/20/2007
TIME: 16:03:59

Input Set : E:\sequence listing yeda-039 ST25.txt

Output Set: N:\CRF4\04202007\J580176.raw

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3 <110> APPLICANT: YEDA Research and Development
      5 <120> TITLE OF INVENTION: DNA VACCINES ENCODING HSP60 PEPTIDE FRAGMENTS FOR TREATING
             AUTOIMMUNE DISEASES
      8 <130> FILE REFERENCE: YEDA/039 PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/580,176
C--> 10 <141> CURRENT FILING DATE: 2006-05-22
     10 <160> NUMBER OF SEQ ID NOS: 15
     12 <170> SOFTWARE: PatentIn version 3.3
     14 <210> SEQ ID NO: 1
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     16 <212> TYPE: PRT
     17 <213> ORGANISM: Artificial
     19 <220> FEATURE:
    20 <223> OTHER INFORMATION: Human HSP60 epitope
     22 <400> SEQUENCE: 1
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     28 Val Leu Asn Arg
     29
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     34 <212> TYPE: PRT
     35 <213> ORGANISM: Artificial
     37 <220> FEATURE:
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     40 <400> SEQUENCE: 2
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    51 <211> LENGTH: 20
    52 <212> TYPE: PRT
    53 <213> ORGANISM: Artificial
    55 <220> FEATURE:
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    64 Gln Leu Asp Val
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69 <211> LENGTH: 20

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70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Human HSP60 epitope
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82 Gly Gly Thr Ser
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88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial
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92 <223> OTHER INFORMATION: Human HSP60 epitope
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100 Thr Asp Ala Leu
101
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105 <211> LENGTH: 20
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Human HSP60 epitope
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118 Asp Ser Leu Thr
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124 <212> TYPE: PRT
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128 <223> OTHER INFORMATION: Human HSP60 epitope
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145 <220> FEATURE:
146 <223> OTHER INFORMATION: Human HSP60 epitope
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148 <400> SEQUENCE: 8

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Input Set : E:\sequence listing yeda-039 ST25.txt

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163 <220> FEATURE:
164 <223> OTHER INFORMATION: Human HSP60 epitope
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178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial
181 <220> FEATURE:
182 <223> OTHER INFORMATION: human hsp60 epitope
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195 <211> LENGTH: 15
196 <212> TYPE: PRT
197 <213> ORGANISM: Mycobacterium tuberculosis
199 <400> SEQUENCE: 11
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206 <211> LENGTH: 2691
207 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 12
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213 cetecagtga ateceagaag aetetggaga gttetgagea gggggggga etetggeete
                                                                          120
215 tgattggtcc aaggaaggct ggggggcagg acgggaggcg aaacccctgg aatattcccg
                                                                          180
217 acctggcagc ctcatcgagc tcggtgattg gctcagaagg gaaaaggcgg gtctccgtga
                                                                          240
219 cgacttataa aagcccaggg gcaagcggtc cggataacgg ctagcctgag gagctgctgc
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221 gacagtccac tacctttttc gagagtgact cccgttgtcc caaggcttcc cagagcgaac
                                                                          360
223 ctgtgcggct gcaggcaccg gcgcgtcgag tttccggcgt ccggaaggac cgagctcttc
                                                                          420
225 tegeggatee agtgtteegt tteeageece caateteaga geegageega cagagageag
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227 ggaaccgcat ggccaaagcc gcggcagtcg gcatcgacct gggcaccacc tactcctgcg
                                                                          540
229 tgggggtgtt ccaacacggc aaggtggaga tcatcgccaa cgaccagggc aaccgcacca
                                                                          600
231 cccccagcta cgtggccttc acggacaccg agcggctcat cggggatgcg gccaagaacc
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233 aggtggcgct gaacccgcag aacaccgtgt ttgacgcgaa gcgcctgatc ggccgcaagt
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235 teggegaeee ggtggtgeag teggaeatga ageaetggee ttteeaggtg ateaaegaeg
237 gagacaagcc caaggtgcag gtgagctaca agggggagac caaggcattc taccccgagg
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239 agatetegte catggtgetg accaagatga aggagatege egaggegtae etgggetaee
                                                                          900
241 eggtgaccaa egeggtgate acegtgeegg ectaetteaa egaetegeag egeeaggeea
                                                                          960
243 ccaaggatgc gggtgtgatc gcggggctca acgtgctgcg gatcatcaac gagcccacgg
                                                                         1020
                                                                         1080
245 ccgccgccat cgcctacggc ctggacagaa cgggcaaggg ggagcgcaac gtcctgatct
247 ttgacctggg cgggggcacc ttcgacgtgt ccatcctgac gatcgacgac ggcatcttcg
                                                                         1140
249 aggtgaaggc cacggccggg gacacccacc tgggtgggga ggactttgac aacaggctgg
                                                                         1200
251 tgaaccactt cgtggaggag ttcaagagaa aacacaagaa ggacatcagc cagaacaagc
                                                                         1260
253 gagccgtgag gcggctgcgc accgcctgcg agagggccaa gaggaccctg tcgtccagca
                                                                         1320
255 cccaggccag cctggagatc gactccctgt ttgagggcat cgacttctac acgtccatca
                                                                         1380
257 ccagggcgag gttcgaggag ctgtgctccg acctgttccg aagcaccctg gagcccgtgg
                                                                         1440
259 agaaggetet gegegaegee aagetggaea aggeeeagat teaegaeetg gteetggteg
                                                                         1500
261 ggggctccac ccgcatcccc aaggtgcaga agctgctgca ggacttcttc aacgggcgcg
                                                                         1560
263 acctgaacaa gagcatcaac cccgacgagg ctgtgggcta cggggcggcg gtgcaggcgg
                                                                         1620
265 ccatcctgat gggggacaag tccgagaacg tgcaggacct gctgctgctg gacgtggctc
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267 ccctgtcgct ggggctggag acggccggag gcgtgatgac tgccctgatc aagcgcaact
                                                                         1740
269 ccaccatece caccaageag aegeagatet teaceaceta eteegaeaac caaceegggg
                                                                         1800
271 tgctgatcca ggtgtacgag ggcgagaggg ccatgacgaa agacaacaat ctgttggggc
                                                                         1860
273 gcttcgagct gagcggcatc cctccggccc caggcgtgcc ccagatcgag gtgaccttcg
                                                                         1920
275 acategatge caaeggeate etgaaegtea eggeeaegga caagageace ggeaaggeea
                                                                         1980
277 acaagatcac catcaccaac gacaagggcc gcctgagcaa ggaggagatc gagcgcatgg
                                                                         2040
279 tgcaggaggc ggagaagtac aaagcggagg acgaggtgca gcgcgagagg gtgtcagcca
                                                                         2100
281 agaacgccct ggagtcctac gccttcaaca tgaagagcgc cgtggaggat gaqqqqctca
                                                                         2160
283 agggcaagat cagcgaggcc gacaagaaga aggtgctgga caagtgtcaa gaggtcatct
                                                                         2220
285 cgtggctgga cgccaacacc ttggccgaga aggacgagtt tgagcacaag aggaaggagc
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287 tggagcaggt gtgtaacccc atcatcagcg gactgtacca gggtgccggt ggtcccgggc
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289 ctgggggctt cggggctcag ggtcccaagg gagggtctgg gtcaggcccc accattgagg
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291 aggtagatta ggggcctttc caagattgct gtttttgttt tggagcttca agactttgca
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293 tttcctagta tttctgtttg tcagttctca atttcctgtg tttgcaatgt tgaaattttt
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295 tggtgaagta ctgaacttgc ctttttttcc ggtttctaca tgcagagatg aatttatact
                                                                         2580
297 gccatcttac gactatttct tctttttaat acacttaact caggccattt tttaagttgg
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305 <213> ORGANISM: Homo sapiens
307 <400> SEQUENCE: 13
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310 atgcctgagg aaacccagac ccaagaccaa ccgatggagg aggaggaggt tgagacgttc
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312 geettteagg cagaaattge ceagttgatg teattgatea teaataettt etaetegaae
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314 aaagagatet ttetgagaga geteatttea aatteateag atgeattgga caaaateegg
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316 tatgaaactt tgacagatcc cagtaaatta gactctggga aagagctgca tattaacctt
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318 ataccgaaca aacaagatcg aacteteact attgtggata etggaattgg aatgaccaag
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320 gctgacttga tcaataacct tggtactatc gccaagtctg ggaccaaagc gttcatggaa
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322 gctttgcagg ctggtgcaga tatctctatg attggccagt tcggtgttgg tttttattct
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324 gcttatttgg ttgctgagaa agtaactgtg atcaccaaac ataacgatga tgagcagtac
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326 gcttgggagt cctcagcagg gggatcattc acagtgagga cagacacagg tgaacctatg
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```

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328 ggtcgtggaa caaaagttat cctacacctg aaagaagacc aaactgagta cttggaggaa
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330 cgaagaataa aggagattgt gaagaaacat tctcagttta ttggatatcc cattactctt
                                                                         720
332 tttgtggaga aggaacgtga taaagaagta agcgatgatg aggctgaaga aaaggaagac
                                                                         780
334 aaagaagaag aaaaagaaaa agaagagaaa gagtcggaag acaaacctga aattgaagat
                                                                         840
336 gttggttctg atgaggaaga agaaaagaag gatggtgaca agaagaagaa gaagaagatt
                                                                         900
960
340 cccgacgata ttactaatga ggagtacgga gaattctata agagcttgac caatgactgg
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342 gaagatcact tggcagtgaa gcatttttca gttgaaggac agttggaatt cagagccctt
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344 ctatttgtcc cacgacgtgc tccttttgat ctgtttgaaa acagaaagaa aaagaacaat
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346 atcaaattgt atgtacgcag agttttcatc atggataact gtgaggagct aatccctgaa
                                                                        1200
348 tatctgaact tcattagagg ggtggtagac tcggaggatc tccctctaaa catatcccgt
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350 gagatgttgc aacaaagcaa aattttgaaa gttatcagga agaatttggt caaaaaatgc
                                                                        1320
352 ttagaactct ttactgaact ggcggaagat aaagagaact acaagaaatt ctatgagcag
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354 ttctctaaaa acataaagct tggaatacac gaagactctc aaaatcggaa gaagctttca
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356 gagetgttaa ggtactacae atetgeetet ggtgatgaga tggtttetet caaggactae
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358 tgcaccagaa tgaaggagaa ccagaaacat atctattata tcacaggtga qaccaaqgac
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360 caggtagcta actcagcctt tgtggaacgt cttcggaaac atggcttaga agtgatctat
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362 atgattgagc ccattgatga gtactgtgtc caacagctga aggaatttga ggggaagact
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364 ttagtgtcag tcaccaaaga aggcctggaa cttccagagg atgaagaaga gaaaaagaag
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366 caggaagaga aaaaaacaaa gtttgagaac ctctgcaaaa tcatgaaaga catattggag
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368 aaaaaagttg aaaaggtggt tgtgtcaaac cgattggtga catctccatg ctgtattgtc
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370 acaagcacat atggctggac agcaaacatg gagagaatca tgaaagctca agccctaaga
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372 gacaactcaa caatgggtta catggcagca aagaaacacc tggagataaa ccctgaccat
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374 tccattattg agaccttaag gcaaaaggca gaggctgata agaacgacaa gtctgtgaag
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376 gatctggtca tcttgcttta tgaaactgcg ctcctgtctt ctgqcttcaq tctqqaaqat
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378 ccccagacac atgctaacag gatctacagg atgatcaaac ttggtctggg tattgatgaa
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380 gatgacccta ctgctgatga taccagtgct gctgtaactg aagaaatgcc accccttgaa
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382 ggagatgacg acacatcacg catggaagaa gtagactaat ctctggctga gggatgactt
                                                                        2280
384 acctgttcag tactctacaa ttcctctgat aatatatttt caaggatgtt tttctttatt
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386 tttgttaata ttaaaaagtc tgtatggcat gacaactact ttaaggggaa gataagattt
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388 ctgtctacta agtgatgctg tgatacctta ggcactaaag cagagctagt aatgcttttt
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390 gagtttcatg ttggttcttt cacagatggg gtaacgtgca ctgtaagacg tatgtaacat
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392 gatgttaact ttgtgtggtc taaagtgttt agctgtcaag ccggatgcct aagtagacca
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394 aatettgtta ttgaagtgtt etgagetgta tettgatgtt tagaaaagta ttegttacat
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396 cttgtaggat ctactttttg aacttttcat tccctgtagt tgacaattct gcatgtacta
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398 gtcctctaga aataggttaa actgaagcaa cttgatggaa ggatctctcc acagggcttg
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400 ttttccaaag aaaagtattg tttggaggag caaagttaaa agcctaccta agcatatcgt
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402 aaagctgttc aaatactcga gcccagtctt gtggatggaa atgtagtgct cgagtcacat
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408 <211> LENGTH: 573
409 <212> TYPE: PRT
410 <213> ORGANISM: Homo sapiens
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                                    25
422 Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
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DATE: 04/20/2007 TIME: 16:04:00

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10

VERIFICATION SUMMARY

DATE: 04/20/2007 TIME: 16:04:00

PATENT APPLICATION: US/10/580,176 TIM

Input Set : E:\sequence listing yeda-039 ST25.txt

Output Set: N:\CRF4\04202007\J580176.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date